

**Rayat Shikshan Sanstha's**  
**KARMAVEER BHAURAO PATIL COLLEGE, VASHI**  
**(Autonomous College)**

**DEPARTMENT OF MATHEMATICS**

**MEETING NOTICE**

**Date: 11/07/2018**

This is to inform all the BOS members that a meeting is organized on 13<sup>th</sup> July 2018 at 11.00 am under the chairmanship of Head of the Department, Mathematics, Mr. B.S.Chiprikar. All the members are requested to attend the meeting.

Meeting Venue: **Department of Mathematics, Ground Floor, M-Building**

**Agenda:**

1. Presentation of FYBSC curriculum.
2. Presentation of MSC I curriculum.
3. Presentation of FYBCOM, FYBMS, FYBBI and FYBAF curriculum.
4. Presentation of syllabus for courses, S.Y.B.Sc., T.Y.B.Sc. and M.Sc. II to the board of studies for approval
5. Evaluation Pattern for all the classes.
6. Presentation of syllabus of Skill based courses.
7. Any other.

With warm regards,  
Mr. B. S. Chiprikar,  
Chairman, Board of Studies, Mathematics,  
K.B.P.college,  
Vashi

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**KARMAVEER BHAURAO PATIL COLLEGE, VASHI**  
**(Autonomous College)**

**DEPARTMENT OF MATHEMATICS**

**BOS MEETING 2018-19**

Meeting of BOS member was held on 13<sup>th</sup> July 2018 at 11.00 a.m. in department of Mathematics.

The following members were present for the meeting.

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Position</b>	<b>Signature</b>
1.	Mr. B. S. Chiprikar	Head of the Department	Chairman	
2.	Dr. Jyotshana Prajapat	VC Nominee	Member	
3.	Dr. Ajit Kumar	Expert from other University	Member	
4.	Dr. Hariharan Ananthnarayan	Expert from other University	Member	
5.	Mr. Sachin Vijayrao Dhane	Expert from Industry	Member	
6.	Miss. Prajakta Sahasrabuddhe	Meritorious Alumni	Member	
7.	Mr. Dattatray Bhosale	Faculty	Member	
8.	Mrs. Vaishali Ambade	Faculty	Member	
9.	Mrs. Charushilla Zambare	Faculty	Member	
10.	Miss. Kusum Rajbhar	Faculty	Member	
11.	Miss. Shubhangi Phadtare	Faculty	Member	
12.	Miss. S. Revathy	Faculty	Member	

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**(Autonomous College)**  
**Department Of Mathematics**  
**Board of Studies Meeting**

**Date: 13<sup>th</sup> July, 2018**

Mr. B.S. Chiprikar, (**Chairman, BOS**), extended welcome to all the members of BOS.

**Reading of Agenda:**

- Motion from Mr. B.S. Chiprikar: To approve the agenda for 13<sup>th</sup> July 2018.

Vote: All in favor.

Resolved: **Motion carried.**

Agenda for the meeting on 13<sup>th</sup> July 2018 approved without modification.

**Business:**

- **Agenda 1: Presentation of syllabus of F.Y.B.Sc.**

**Discussion:** The syllabus of F.Y.B.Sc. was presented in front of BOS members for review.

**Semester I:**

Paper I: Calculus I:

In unit I, Dr. Ajit Kumar suggested we include density theorem of rationals and irrationals, nested interval theorem and suggested to remove Cauchy Schwarz inequality.

In unit II, Dr. Ajit Kumar suggested we introduce Cauchy sequence before monotone sequence and also introduce recursive sequence. He also suggested we remove the topic: divergence of sequence and limit of a sequence.

In unit III, Dr. Hariharan Ananthanarayan suggested we add geometric series, telescopic series and necessary conditions for convergence of series.

All the members of BOS suggested we use "Ajit Kumar-S. Kumaresan, A Basic Course in Real Analysis, CRC Press, 2014" as a reference book in place of R. R. Goldberg and use R. R. Goldberg as additional reference book.

Paper II: Algebra I:

In unit I, all the members suggested we include images and inverse images of sets under function, graph of the function.

In unit II, Dr. Ajit Kumar and Dr. Hariharan Ananthanarayan suggested we simply write induction principle instead of first and second principle. They also suggested that we shift certain topics from unit III to unit II and vice-versa. They also suggested we rename unit II as Integers and Polynomials.

All the members suggested we rename unit III as "Prime Numbers and Polynomials"

Dr. Ajit Kumar suggested we use Koshy: Elementary Number Theory and Elementary number theory, Jones and Jones as a reference book.

**Semester II:**

Paper I: Calculus II:

In unit I, Dr. Ajit Kumar suggested we reorder sections in the unit and add limit as  $x$  tends to infinity.

Dr. Jyotshana suggested we do  $\epsilon - \delta$  iff Sequential continuity and then introduce examples.

In Unit II, all the members suggested we shift higher order derivatives and topics after that to unit III.

All the members suggested we use same reference books as in semester I.

Paper II: Algebra II

In Unit III, all the members suggested we remove the topic Linear Transformation and add quotient spaces in the end of the unit.

List of Reference books to be added: David Lay: Linear algebra and its applications, and remove artin, Lang.

Vote: All in Favor.

Resolved: Agenda Carried forward.

• **Agenda 2: Presentation of syllabus of M.Sc. I.**

**Discussion:** The syllabus of M.Sc.- I was presented in front of BOS members for review

**Semester I:**

Algebra I: Dr. Hariharan Ananthanarayan suggested we add applications for each unit in the paper.

Complex Analysis I: Dr. Jyotshana suggested we interchange a few points in between the units to have continuity in the syllabus.

Discrete Mathematics: Dr. Hariharan suggested we add K.D.Joshi, Discrete Mathematics as one of the reference books.

**Semester II:**

Dr. Jyotshana suggested we introduce Differential Geometry as the third paper of semester II, instead of Analysis II as it is difficult for the students to understand the subject in the part I of M.Sc.

Differential Equations: Dr. Hariharan suggested we add application of ordinary differential equations in the syllabus. Dr. Jyotshana suggested we remove the unit IV: Partial Differential Equations and replace it with the applications as we are considering to introduce Partial Differential Equations as a compulsory paper in M.Sc. II.

Vote: All in Favor.

Resolved: Agenda Carried forward.

• **Agenda 3: Presentation of syllabus of F.Y.B.COM, F.Y.BMS, BBI, and BAF.**

**Discussion:** The syllabus of F.Y.B.COM, F.Y.BMS, BBI, and BAF were presented in front of BOS members for review.

Dr. Ajit kumar and Dr. Hariharan suggested we add the topic of matrices and determinants in unit II of F.Y.B.COM syllabus and all the other syllabi were approved unanimously.

Vote: All in Favor.

Resolved: Agenda Carried forward.

• **Agenda 4: Presentation of syllabus for courses, S.Y.B.Sc., T.Y.B.Sc. and M.Sc. II to the board of studies for approval.**

**Discussion:** Syllabus for the courses, S.Y.B.Sc., T.Y.B.Sc. and M.Sc. II were presented to the BOS. These syllabi are given by the University of Mumbai and in order to maintain the continuity, they will be implemented this year.

Vote: All in Favor

Resolved: Agenda carried forward.

• **Agenda 5: Evaluation pattern for all classes.**

**Discussion:** The evaluation pattern for all the classes were presented to the BOS members. After the discussion, it was unanimously approved.

Vote: All in Favor

Resolved: Agenda carried forward.

• **Agenda 6: Presentation of syllabus of skill based courses.**

**Discussion:** The syllabus of Biostatistics and Statistical Methods for undergraduate level and postgraduate level respectively were presented to the BOS members. It was approved unanimously.

Vote: All in Favor.

Resolved: Agenda carried forward.

# ACTION TAKEN REPORT

[w.r.t. the meeting held on 13<sup>th</sup> July, 2018]

- **Agenda 1: Presentation of syllabus of F.Y.B.Sc.**

As per the discussion the following changes were made.

**Semester I:**

Paper I: Calculus I:

In unit I:

Included: Density theorem of rationals and irrationals, nested interval theorem

Removed: Cauchy Schwarz inequality.

In unit II:

Included: Cauchy sequence before monotone sequence, recursive sequence.

Removed: Divergence of sequence and limit of a sequence.

In unit III:

Included: Geometric series, telescopic series and necessary conditions for convergence of series.

Reference Books:

Included: "Ajit Kumar-S. Kumaresan, A Basic Course in Real Analysis, CRC Press, 2014" as a reference book in place of R. R. Goldberg and use R. R. Goldberg as additional reference book.

Paper II: Algebra I:

In unit I:

Included: Images and inverse images of sets under function, graph of the function.

In unit II:

Replaced: Induction principle instead of first and second principle.

Shifted: Certain topics from unit III to unit II and vice-versa, rename unit II as Integers and Polynomials and unit III as "Prime Numbers and Polynomials"

Reference Books:

Included: Koshy: Elementary Number Theory and Elementary number theory, Jones and Jones.

**Semester II:**

Paper I: Calculus II:

In unit I:

Reordered the sections in the unit

Included: limit as  $x$  tends to infinity.

In Unit II:

Shifted: Higher order derivatives and topics after that to unit III.

Paper II: Algebra II

In Unit III:

Removed: The topic Linear Transformation

Included: Quotient spaces in the end of the unit.

Reference books included:

David lay: Linear algebra and its applications, and remove artin, Lang.

- **Agenda 2: Presentation of syllabus of M.Sc. I.**

As per the discussion the following changes were made.

**Semester I:**

Algebra I:

Included: Applications for each unit in the paper.

Complex Analysis I:

Interchanged: A few points in between the units to have continuity in the syllabus..

**Semester II:**

Replaced: Differential Geometry as the third paper of semester II, in place of Analysis II.

Differential Equations:

Included: Application of ordinary differential equations in the syllabus.

Removed: The unit IV: Partial Differential Equations

Replaced: Unit IV with applications.

- **Agenda 3: Presentation of syllabus of F.Y.B.COM, F.Y.BMS, BBI, and BAF.**

As per the discussion the following changes were made.

Included: Matrices and determinants in unit II of F.Y.B.COM syllabus

- **Agenda 4: Presentation of syllabus for courses, S.Y.B.Sc., T.Y.B.Sc. and M.Sc. II to the board of studies for approval.**

Accepted.

- **Agenda 5: Evaluation pattern for all classes.**

Accepted.

- **Agenda 6: Presentation of syllabus of skill based courses.**

Accepted.

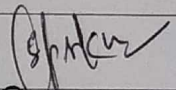
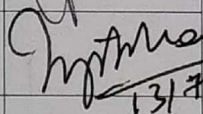
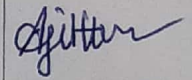
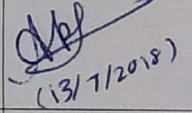
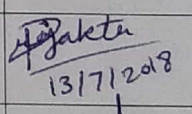
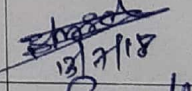
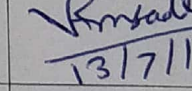
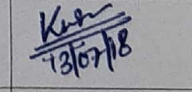
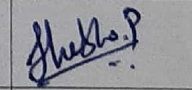
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3.	Dr. Ajit Kumar	Expert from other University	Member	
4.	Dr. Hariharan Ananthnarayan	Expert from other University	Member	 (13/7/2018)
5.	Mr. Sachin Vijayrao Dhane	Expert from Industry	Member	
6.	Miss. Prajakta Sahasrabuddhe	Meritorious Alumni	Member	 13/7/2018
7.	Mr. Dattatray Bhosale	Faculty	Member	 13/7/18
8.	Mrs. Vaishali Ambade	Faculty	Member	 13/7/18
9.	Mrs. Charushilla Zambare	Faculty	Member	
10.	Miss. Kusum Rajbhar	Faculty	Member	 13/7/18
11.	Miss. Shubhangi Phadtare	Faculty	Member	
12.	Miss. S. Revathy	Faculty	Member	